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4401 Great America Parkway
Santa Clara, CA 95054

Installing a Power Module in the Passport 5430 Multiservice Access Switch

NORTEL NETWORKS

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This is to certify that the Nortel Networks Passport 5430 Multiservice Access Switchis shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55 022 Class A (CISPR 22).

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Achtung: Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten, in welchen Fällen der Benutzer für entsprechende Gegenmaßnahmen verantwortlich ist.

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Canadian Department of Communications Radio Interference Regulations

This digital apparatus (Passport 5430) does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique (Passport 5430) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

Canada CS-03 Rules and Regulations

Notice: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent the degradation of service in some situations.

Canada Requirements Only

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Notice: For equipment using loopstart lines, please note that the Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5. The REN is located on the “FCC Rules Part 68” label located on the bracket of the module, or on the back of the unit.

Canada CS-03 -- Règles et règlements

Avis: L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas.

Avis: Veuillez prendre note que pour tout appareillage supportant des lignes de type “loopstart,” l'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5. Le REN figure sur l’étiquette “FCC Rules Part 68” située sur le support du module ou à l’arrière de l’unité.

FCC Part 68 Compliance Statement

This equipment complies with Part 68 of FCC Rules. All direct connections to telephone network lines must be made using standard plugs and jacks compliant with FCC Part 68. Please note the following:

1. You are required to request service from the telephone company before you connect the unit to a network. When you request service, you must provide the telephone company with the following data:

    - When you request T1 Service, you must provide the telephone company with

        -- The Facility Interface Code

        Provide the telephone company with all the codes below:

        - 04DU9-BN (1.544 MB, D4 framing format)
        - 04DU9-DN (1.544 MB, D4 framing format with B8ZF coding)
        - 04DU9-1KN (1.544 MB, ESF framing format)
        - 04DU9-1SN (1.544 MB, ESF framing format with B8ZF coding)
        - 04DU9-1ZN (1.544 MB, ANSI ESF and ZBTSI without line power)

        The telephone company will select the code it has available.

        -- The Service Order Code(s) (SOC): 6.0Y

        -- The required Universal Service Order Code (USOC) jack: RJ48C

- When you request ISDN “U” Interface Service, you must provide the telephone company with
  - -- The Facility Interface Code: 02IS5
  - -- The Service Order Code(s) (SOC): 6.0F
  - -- The required Universal Service Order Code (USOC) jack: RJ49C
- When you request ISDN “S/T” Interface Service, you must provide the telephone company with
  - -- The Service Order Code(s) (SOC): 6.0P
  - -- The make, model number, and FCC Registration number of the NT1

  Note: ISDN S/T cannot be directly connected to the network.
- When you request Primary Rate ISDN Service, you must provide the telephone company with
  - -- The Facility Interface Code: 04DU9-1SN (1.544 MB, ESF framing format with B8ZF coding)
  - -- The Service Order Code(s) (SOC): 6.0Y
  - -- The required Universal Service Order Code (USOC) jack: RJ48C

2. Your telephone company may make changes to its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. The telephone company will notify you in advance of such changes to give you an opportunity to maintain uninterrupted telephone service.
3. If the unit causes harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will notify you in advance, but if advance notice is not practical, you will be notified as soon as possible and will be informed of your right to file a complaint with the FCC.

4. If you experience trouble with the unit, please contact the Nortel Networks Technical Solutions Center in your area for service or repairs. Repairs should be performed only by service personnel authorized by Nortel Networks.

United States	1-800-2LANWAN
Valbonne, France	33-4-92-96-69-68
Sydney, Australia	61-2-9927-8800
Tokyo, Japan	81-3-5740-1700

5. You are required to notify the telephone company when you disconnect the unit from the network.

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Preface

In this guide, the Passport 5430 Multiservice Access Switch is referred to as the Passport 5430.

Before You Begin

This guide is intended for qualified service personnel who need to add or replace a Passport 5430 power supply. A qualified service person should have appropriate technical training and experience and be aware of the hazards involved in installing and replacing power supplies.

Before installing the Passport 5430, ensure that all network wiring had been installed on the premises using standard cable-system practices.

Text Conventions

This guide uses the following text conventions:

italic text	Indicates new terms and book titles.

Acronyms

EIA	Electronic Industries Association
LED	light-emitting diode

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- The “CD ROMs” section lists available CDs.
- The “Guides/Books” section lists books on technical topics.

- The “Technical Manuals” section lists available printed documentation sets.

How to Get Help

If you purchased a service contract for your Nortel Networks product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Nortel Networks service program, contact one of the following Nortel Networks Technical Solutions Centers:

Technical Solutions Center	**Telephone Number**
Billerica, MA	800-2LANWAN (800-252-6926)
Santa Clara, CA	800-2LANWAN (800-252-6926)
Valbonne, France	33-4-92-96-69-68
Sydney, Australia	61-2-9927-8800
Tokyo, Japan	81-3-5740-1700

About the Power Supply

The Passport 5430 contains one or two AC-input power supplies. Figure 1 shows the location of the power supplies in the Passport 5430.

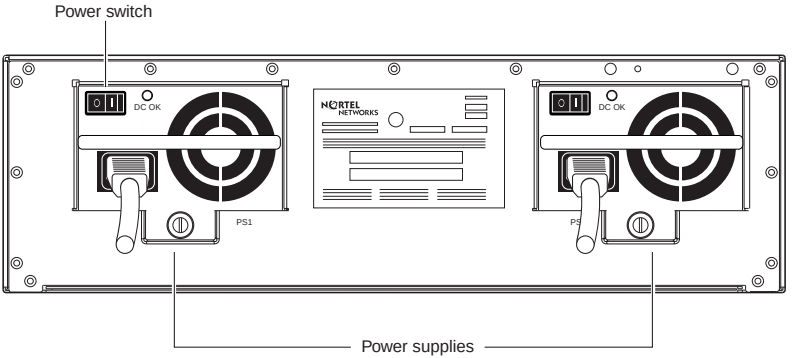

Figure 1. Location of the Power Supplies in the Passport 5430

The Passport 5430 ships with a single AC power supply. You can install a second power supply for redundancy and high-availability operation.

Figure 2 shows an AC input power supply.

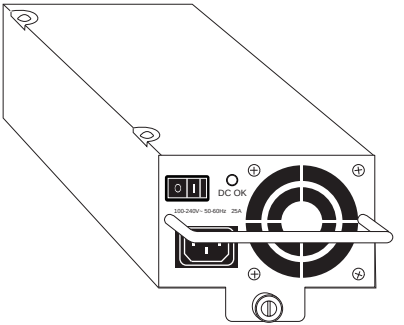

Figure 2. Passport 5430 Power Supply

The operating system generates an event message in response to any change in the status of a power module. These messages identify the power supply by its slot. From the back of the Passport 5430, power supply 1 is on the left, and power supply slot 2 is on the right.

Checking Status Indicators

Figure 3 shows the location of the power supply LEDs on the system processor card.

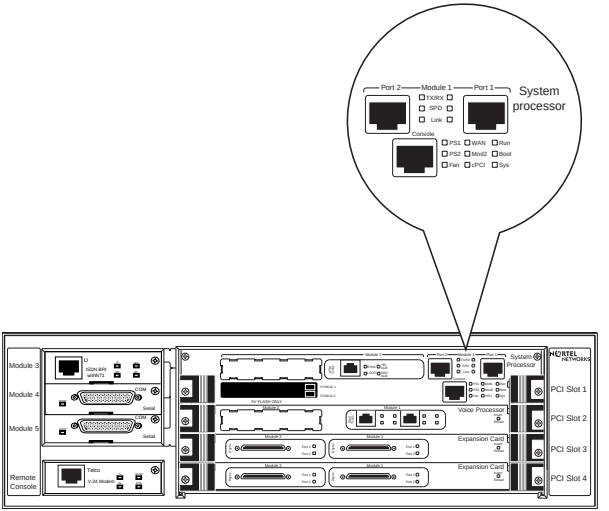

Figure 3. Passport 5430 System Processor Card Diagnostic LEDs

Table 1 describes the power supply LEDs.

Table 1. AC Power Module LEDs

LED	State	Meaning
PS1	Off	Power off
	On (green)	Power supply is operating.
	Rapid flashing (green)	Power supply failed.
PS2	Off	Power off
	On (green)	Redundant power supply (optional) is operating.
	Rapid flashing (green)	Redundant power supply failed.

AC Input Electrical Requirements

The installation site must meet the following electrical requirements for AC power (Table 2):

Table 2. Electrical Requirements

Input Voltage Range	Maximum Input Current
90-264 volts alternating current (VAC)	1.0 amperes (A)

Table 3 lists the wall receptacle requirements for AC power.

Table 3. Wall Receptacle Requirements for AC Power

Country	Receptacle	Voltage
United States and Canada	National Electrical Manufacturers Association (NEMA) 5-15R standard receptacle	100-120 V
Any other country	Your Passport 5430 distributor attaches the necessary plug to the power cable and informs you of the receptacle you need.	100-240 V

Adding or Replacing a Power Supply

This chapter describes how to add or replace a Passport 5430 power supply, as follows:

Topic	Page
Adding a Second Power Supply	10
Replacing a Power Supply	12
Removing and Installing a Power Supply Filler Panel	14

Adding a Second Power Supply

To add a second power supply:

1. Put on an antistatic wrist strap.

Caution: Electrostatic discharge can damage hardware. You must wear the antistatic wrist strap on your arm whenever you handle printed circuit boards. Refer to the instructions enclosed wtih your antistatic wrist strap to attach it.

---

2. Remove the power supply filler panel.

   For instructions, see “Removing and Installing a Power Supply Filler Panel” on page 14.

3. Grasp the handle and push the power supply into the slot along the side guides, and gently insert the supply (Figure 4).

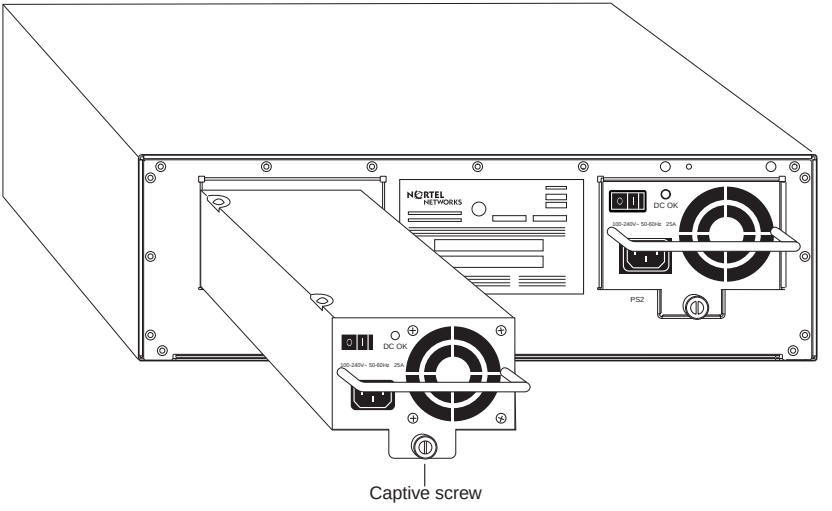

Figure 4. Removing or Installing a Power Supply

4. Using a flat-tip screwdriver, tighten the captive screw until the power supply is seated firmly.

When you insert an operational second power supply into the Passport 5430 with the power on, the PS2 LED on the system processor module turns on. At the same time, the Passport 5430 automatically redistributes the load between the two power supplies.

5. Connect to the AC power source.

   For instructions, see “Connecting to the AC Power Source” on page 17.

6. Turn on the power supply power switch.

Replacing a Power Supply

To replace a power supply:

Caution: To maintain proper cooling, never operate the Passport 5430 with an empty power supply slot. If you are replacing a failed second power supply and you do not have a power filler panel, leave the failed power supply installed until a replacement power supply is available.

---

1. Turn off the power switch on the power supply you are replacing.

2. Put on an antistatic wrist strap.

Caution: Electrostatic discharge can damage hardware. You must wear the antistatic wrist strap on your arm whenever you handle printed circuit boards. Refer to the instructions enclosed with your antistatic wrist strap to attach it.

---

3. Disconnect the power cable from the power connector on the power supply.
4. Using a flat-tip screwdriver, loosen the captive screw that fastens the power supply to the chassis until the power supply disengages (Figure 4).
5. Grasp the handle and using both hands, pull the power supply out of the Passport 5430.

   You can remove an operational power supply without affecting the operation of the Passport 5430. When you remove a power supply, the associated LED (PS1 or PS2) on the system processor module turns off, and the Passport 5430 automatically redistributes the load to the remaining power supply.
6. Grasping the handle, guide the replacement power supply into the slot along the side guides and gently insert the supply (see Figure 4 on page 11).

7. Using a flat-tip screwdriver, tighten the captive screw until the power supply is seated firmly.
8. Connect to the AC power source.

   For instructions, see “Connecting to the AC Power Source” on page 17.
9. Turn on the power supply power switch.

Removing and Installing a Power Supply Filler Panel

Nortel Networks ships the Passport 5430 with a filler panel in the power supply slot reserved for the second power supply.

Before you can install a second power supply, you must remove the power supply filler panel. for instructions, see the next section, “Removing a Power Supply Filler Panel.”

If you remove a power supply from the Passport 5430 without replacing it, you must install a power filler panel to maintain the proper cooling airflow. For instructions, see “Installing a Power Supply Filler Panel” on page 16.

Removing a Power Supply Filler Panel

To remove a power supply filler panel:

1. Using a flat-tip screwdriver, loosen the captive screw that fastens the power supply filler panel to the chassis until the filler panel disengages (Figure 5).

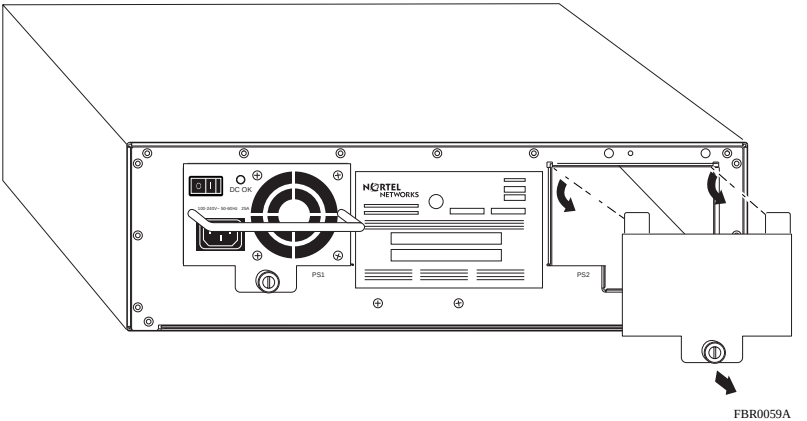

Figure 5. Removing a Power Supply Filler Panel

2. Pull the power supply filler panel away from the Passport 5430.

Caution: To maintain proper cooling, never operate the Passport 5430 with an empty power supply slot. Save the filler panel to cover the slot in case you need to operate the Passport 5430 with a power supply removed.

Installing a Power Supply Filler Panel

If you remove a power supply from the Passport 5430 without replacing it, you must install a power supply filler panel to maintain the proper cooling airflow.

To install a power supply filler panel:

1. Place the power supply filler panel over the empty power supply slot.
2. Using a flat-tip screwdriver, tighten the captive screw until the power supply filler panel firmly covers the slot.

Connecting to the Power Source

This chapter describes how to connect the Passport 5430 to the AC power source.

Connecting to the AC Power Source

To connect the power cable to the Passport 5430:

1. Connect the a power cable to the power connector on each of the power supplies (Figure 6).

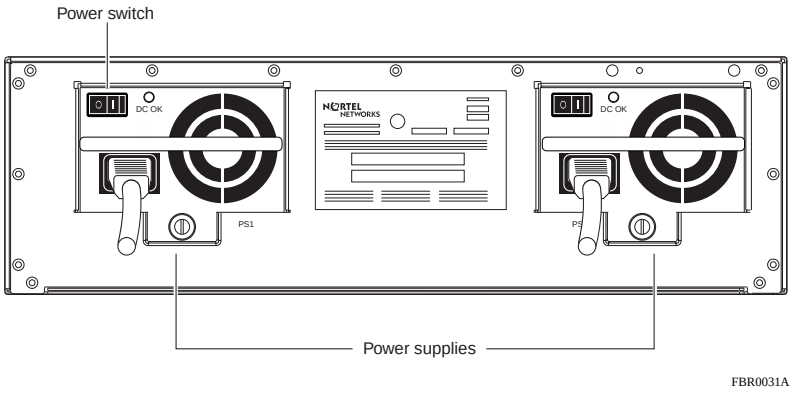

Figure 6. Connecting the Power Cable to the Passport 5430

2. Connect the remote end of the power cable to a grounded outlet.
3. Turn the Passport 5430 on.